

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

65-124. (Canceled).

125. (Previously Presented) An array of light emitting diodes adapted for use in curing ink in an ink jet printer according to claim 145.

126. (Canceled)

127. (Previously Presented) The apparatus ~~A radiation source~~ according to claim ~~176~~[[126]] wherein the adjacent rows of ~~LEDs~~ elements are offset so that adjacent ~~LEDs~~ elements in the adjacent rows do not align in a direction substantially perpendicular to the major axes of the rows of LEDs.

128. (Currently Amended) The apparatus ~~A radiation source~~ according to claim ~~[[426]]~~ 176, wherein the radiation source comprises N rows of ~~LEDs~~ elements, the ~~LEDs~~ elements of each row having a pitch of w along the row direction, and wherein each row of ~~LEDs~~ elements is offset by Yw/N from an adjacent row, wherein Y, w and N are integers.

129. (Currently Amended) The apparatus ~~A radiation source~~ according to claim ~~[[426]] 176~~, wherein the radiation source is adapted to emit UV radiation.

130. (Currently Amended) The apparatus ~~A radiation source~~ according to claim ~~[[426]] 176~~, wherein the radiation source is elongate.

131. (Currently Amended) The apparatus ~~A radiation source~~ according to claim ~~[[426]] 176~~, including means for varying the power of the radiation source.

132. (Currently Amended) The apparatus ~~A radiation source~~ according to claim ~~[[426]] 176~~, adapted to cure ink in an ink jet printer.

133-139. (Canceled).

140. (Previously Presented) A printer for use in printing a printing fluid onto a substrate, the printer comprising a radiation source for curing the fluid, wherein the printer is arranged to provide relative movement between the radiation source and the substrate in a curing direction during the curing operation, wherein the radiation source comprises an array of radiation-emitting elements, wherein the radiation-emitting elements are arranged in a plurality of rows and such that an element of the radiation-emitting elements is not aligned in the curing direction with any adjacent elements of the radiation-emitting elements.

141. (Previously Presented) A printer according to claim 140 wherein the array comprises a plurality of adjacent rows of elements, wherein a row of elements is offset from an adjacent row of elements in a direction substantially perpendicular to the cure direction.

142. (Previously Presented) A printer according to claim 140 wherein the adjacent rows of elements are offset so that adjacent elements in the adjacent rows do not align in a direction substantially perpendicular to the rows of elements.

143. (Previously Presented) A printer according to claim 140, wherein the source comprises N rows of elements, the elements of each row having a pitch of w along the row direction, and wherein each row of elements is offset by Yw/N from an adjacent row, wherein Y, w and N are integers.

144. (Previously Presented) A printer according to claim 140, wherein the source is adapted to emit UV radiation.

145. (Previously Presented) A printer according to claim 140, wherein elements of the source comprise light emitting diodes.

146. (Previously Presented) A printer according to claim 140, wherein the source is elongate.

147. (Previously Presented) A printer according to claim 140, including means for varying the power of the radiation source.

148-152. (Canceled).

153. (Previously Presented) A printer according to claim 140, the elements being such that wherein at least 90% of the radiation emitted has a wavelength in a band having a width of less than 50nm.

154. (Previously Presented) A printer according to claim 140, wherein the fluid is ink.

155-175. (Canceled).

176. (New) An apparatus comprising:

a printer including:

a print head for dispersing fluid onto a substrate; and

a radiation source having a plurality of rows of radiation emitting elements, each row having a major axis that is parallel to adjacent rows, and the elements in adjacent rows being offset from each other;

the substrate moving relative to the radiation source in a curing direction, the radiation source being fixed such that the curing direction is perpendicular to the major axes of the rows;

wherein the offset radiation emitting elements reduce variations in the intensity of radiation received by the substrate to provide improved cure performance.